System Commands Grouped by Functions

This section provides an overview of the Natural system commands grouped according to their functions:

- Navigating within Natural
- Environment Settings
- Editing and Storing Programming Objects
- Executing Programs
- Invoking Maintenance Utilities
- Invoking Transfer Utilities
- Monitoring and Debugging
- Commands used with NaturalX
- Commands used with SQL Databases
- Commands used with the Natural Optimizer Compiler
- Miscellaneous

Note:
Platform-specific availability information:
M=Mainframes, **U**=UNIX, **O**=OpenVMS, **W**=Windows

Navigating within Natural

Command	Platform	Function
FIN	M,U,O,W	Terminates a Natural session.
LOGOFF	M,U,O,W	Causes the library ID to be set to SYSTEM and the Adabas password to be set to blanks. The contents of the source program work area are not affected by this command.
LOGON	M,U,O,W	Establishes a library ID for the user. In the specified library, all source or object programs saved during the session will be stored (unless you explicitly specify another library ID in a SAVE, CATALOG or STOW command).
MAINMENU	M	Switches Natural main menu mode on or off, or invokes a program which creates a user-defined menu.
RETURN	M,U,O,W	Returns to a return point set by a SETUP command.
SETUP	M,U,O,W	Establishes a return point to which control can be returned using a RETURN command. This allows you to easily transfer from one application to another during a Natural session.

Environment Settings

Command	Platform	Function
COMPOPT	M,U,O,W	Sets various compilation options that affect the way in which Natural programming objects are compiled.
GLOBALS	M,U,O,W	Changes the settings of various Natural session parameters.
KEY	M,U,O	Assigns functions to keys to be used in your Natural session.
SYSPARM (*)	M	Changes the settings of various Natural profile parameters.
MAP	W	Establishes a connection to a remote development server .
PROFILE	M,U,O,W	Only available if Natural Security has been installed. Displays the security profile currently in effect. This profile informs you of the conditions of use in effect for you in your current Natural environment.
SYSPROD	M,U,O,W	Displays a list of the products installed at your site, and some information on these products.
SYSPROF	M,U,O,W	Displays the current definitions of the Natural system files.
UNMAP	W	Disconnects the currently active remote environment.

Editing and Storing Programming Objects

Command	Platform	Function
CATALL	M,U,O,W	Stores **all** objects in the current library in source and/or object form.
CATALOG	M,U,O,W	Compiles the programming object currently in the source work area of an editor and stores the resulting object module in the Natural system file.
CHECK	M,U,O,W	Checks if the source code of a programming object contains any syntax errors. The checking process varies according to the type of object being checked. Syntax checking is also performed as part of the system commands RUN and STOW.
CLEAR	M,U,O,W	Clears the contents of the work area of the editor.
DELETE	M	Deletes a programming object from the Natural system file. You can delete it in source form, in object form, or both.
EDIT	M,U,O,W	Edits the source form of a programming object.
LIST	M,U,O,W	Lists one or more objects which are contained in the current library.
READ	M,U,O,W	Transfers an object in source form from the Natural system file to the source work area.
RENAME	M	Gives a Natural programming object another name.
RENUMBER	M,U,O,W	Renumbers the source code currently in the source work area.
SAVE	M,U,O,W	Saves the **source form** of the programming object currently in the work area of the editor and stores it in the Natural system file.
SCAN	M,U,O,W	Searches for a string of characters within an object, with an option to replace the string with another string.
STOW	M,U,O,W	Saves the **source form** of a programming object, compiles the object and stores the resulting **object module** as well as the source in the Natural system file.
STRUCT	M,U,O	Performs structural indentation of a source program, and helps detecting structural inconsistencies.

Executing Programs

Command	Platform	Function
EXECUTE	M,U,O,W	Executes a program that has been compiled and stored in object form. You can EXECUTE a program only if it has been stored in compiled form.
RUN	M,U,O,W	Compiles and executes the source program currently in the work area of the editor.

Invoking Maintenance Utilities

Command	Platform	Function
SYSDDM (*)	M,U,O	Creates and maintains Natural data definition modules (DDMs).
SYSERR (*)	M,U,O,W	Creates and maintains the messages you wish your Natural applications to display to the users.
SYSNCP (*)	M,U,O,W	Creates and maintains the command processors to be used in your Natural applications.
SYSRPC (*)	M,U,O,W	Creates and maintains remote procedure calls, that is, provides the settings necessary to execute a subprogram located on a remote server.

Invoking Transfer Utilities

Command	Platform	Function
NATLOAD (*)	M,U,O	Load Natural programming objects, error messages and DDMs from a work file into system files. See also SYSUNLD.
NATUNLD (*)	M,U,O	Unloads Natural programming objects, error messages and DDMs from system files onto a work file. See also SYSUNLD.
SYSMAIN (*)	M,U,O,W	Transfers objects within the Natural system from one library to another.
SYSOBJH	U,O,W	Processes Natural and non-Natural objects for distribution in Natural environments.
SYSTRANS (*)	M,U,O,W	Transfers all Natural programming objects, DDMs, libraries, command processors and error messages as well as Adabas FDTs from one hardware platform to another.
SYSUNLD (*)	M,U,O	Invokes the SYSUNLD utility, which contains the two utilities NATUNLD and NATLOAD.

Monitoring and Debugging

Command	Platform	Function
BUS (*)	M	Invokes the Buffer Usage Statistics function of the SYSTP utility. BUS provides statistical information on the usage of Natural buffers.
DUMP	M	Provides information for Software AG technical support personnel in order to locate an error that caused an abnormal termination (abend) of the Natural system.
RPCERR (*)	M	Displays the last Natural error number and message if related to Remote Procedure Call (RPC), and the last BROKER reason code and associated message.
SYSADA (ADACALL) (*)	M	Invokes the ADACALL utility which is contained in the library SYSADA. ADACALL enables you to issue Adabas direct calls (native commands) directly to an Adabas database.
SYSBPM (*)	M	Invokes the SYSBPM utility, which is used to monitor the buffer pool and adjust it to meet your requirements.
SYSEDT (*)	M	Invokes the Editor Buffer Pool Services utility SYSEDT, which is used to display runtime information of the editor buffer pool, modify its parameters, and delete logical work and recovery files.
SYSTP (*)	M	Invokes the SYSTP utility, which allows you to monitor and control various TP-monitor-specific characteristics of Natural.
TECH	M,U,O,W	Displays technical and other information on your Natural session.
TEST (*)	M	Invokes the Natural Debugger for online testing and debugging. The Natural Debugger allows you to test various aspects of your applications and locate errors in the processing flow of programs.

Commands used with NaturalX

Command	Platform	Function
DCOMPARM (*)	M	Displays and modifies the Natural parameters for a specified server ID in the system registry.
REGISTER (*)	M,U,O,W	Registers Natural classes. They are registered for the server ID under which Natural was started.
UNREGISTER (*)	M,U,O,W	Unregisters Natural classes.

Commands used with SQL Databases

Command	Platform	Function
LISTSQL	M	Only available with Natural for DB2 and Natural for SQL/DS. Lists those Natural statements in a programming object which are associated with a database access, and the SQL commands they have been translated into.
SQLERR	M	Only available with Natural for DB2 and Natural for SQL/DS. Displays information on an SQL error.

Commands used with the Natural Optimizer Compiler

Command	Platform	Function
NOCOPT (*)	M	Displays the current settings of the Natural Optimizer Compiler options as they were specified during Natural startup, and allows you to change these settings.
NOCSHOW (*)	M	Provides buffer information on the output generated by the PGEN option. PGEN causes the Natural Optimizer Compiler to output generated code and internal Natural structures.
NOCSTAT (*)	M	Provides statistical data on programs suitable for processing by the Natural Optimizer Compiler.

Miscellaneous

Command	Platform	Function
AIV	M	Displays all application-independent variables (AIVs) which have been defined.
HELP	M,U,O,W	Invokes the Natural help system.
INPL (*)	M,U,O,W	Invokes the INPL utility. It is **only** used for the loading of Software AG installation datasets into the system files.
LAST	M,U,O,W	Displays the system commands that were last executed, and allows you to execute them again.
LASTMSG	M,U,O,W	Displays additional information on the error situation which occurred last.
LIST COUNT	M,U,O,W	Lists the number of Natural objects in your current library.
MAIL	M,U,O,W	Only available if Natural Security has been installed. Invokes a mailbox to modify its contents and/or expiration date. A mailbox is used as a notice board to broadcast messages to Natural users.
ROUTINES	M	Shows you which objects in the current library use which external subroutines.
SYSEXT	M,U,O,W	Invokes the library SYSEXT, which contains various Natural user exits.
SYSFILE (*)	M,U,O,W	Invokes the function Natural Print/Work Files of the SYSTP utility. This function provides information on the available work files and print files.
UNLOCK	W	Enables you to view locked objects and unlock them if required.
UPDATE	M,U,O,W	Prevents database updating being carried out by a program.
XREF	M,U,O,W	Only available if Predict has been installed. Controls the usage of the Predict function "active cross-references". This function automatically creates documentation in Predict about the objects which a program/data area references.

* Each of these commands invokes a utility or application of a corresponding name. For a description of the utilities, see the Natural Utilities for Mainframes documentation, refer to the list of utilities on the overview page of Natural for Mainframes or see below:

DCOMPARM	NaturalX documentation
NOCOPT	Natural Optimizer Compiler documentation
NOCSHOW	Natural Optimizer Compiler documentation
NOCSTAT	Natural Optimizer Compiler documentation
SYSRPC	Natural RPC documentation
REGISTER	NaturalX documentation
UNREGISTER	NaturalX documentation

See also:

- What are System Commands?
- Issuing System Commands
- System Command Syntax
- Terminal Commands